## **AUTHOR INDEX**

Alexander, M.G., Effect of modifier cations on Na+ conductivity in sodium silicate	2(1987) 2	285
glasses 2	2 (1987) 2	257
Amano, K., see J. Mizusaki	2 (1987) 3	313
Amano, K., see J. Mizusaki	2 (1987) 3	323
Balkanski, M., see C. Julien 2	2 (1987) 1	199
Baluni, G.N. and U.C. Naithani, Dielectric, electrical and acoustical properties of	- ()	
barium titanate 2	2 (1987)	155
Battut, J.P., J. Dupuis, S. Soudani, W. Granier, S. Vilminot and H. Whabi, NMR and	, , ,	
electrical conduction study of fluorine motion in MSn <sub>2</sub> F <sub>5</sub> compounds with M = Na,		
K, Rb, Cs, Tl, HN <sub>4</sub>	2 (1987)	247
	2 (1987)	
Brec, R., Review on structural and chemical properties of transition metal phosphorous	- ()	
	2 (1986)	3
Carrado, K.A., A. Kostapapas, S.L. Suib and R.W. Coughlin, Physical and chemical stabilities		
	2 (1986)	117
Casciola, M., U. Costantino and S. D'Amico, Protonic conduction of intercalation compounds	2 (1700)	,
	2 (1986)	127
	2 (1986)	
	2 (1986)	
	2 (1986)	
	22 (1986)	
Daage, M., see C.B. Roxlo	22 (1986)	97
E 20 M 1 TO 12 TO 1 TO 20 TO 2	22 (1986)	
	22 (1987)	
Dickens, P.G. and S.J. Hibble, The intercalation of ammonium in some layered oxides and	(1)0//	200
and the second	22 (1986)	69
	22 (1987)	
	22 (1987)	
Ebert, L.B., D.R. Mills and J.C. Scanlon, Still more on the reaction of the intercalation		
	22 (1986)	143
. 0	22 (1986)	
,,	(1700)	03
Fabry, P., see M. Kleitz	22 (1987)	295
Fueki, K., see J. Mizusaki	22 (1987)	313
Fueki, K., see J. Mizusaki	22 (1987)	323

## Author index

Glaunsinger, W.S., see S.P. Hsu	22 (1987) 345
Granier, W., see J.P. Battut	22 (1987) 247
Greenblatt, M., see K.V. Ramanujachary	22 (1986) 105
Hatzikraniotis, E., see C. Julien	22 (1987) 199
Hibble, S.J., see P.G. Dickens	22 (1986) 69
Hill, R.M., see L.A. Dissado	22 (1987) 331
Hsu, S.P. and W.S. Glaunsinger, Evidence for trivalent ytterbium in ytterbium-ammonia	
intercalation compounds of titanium disulfide	22 (1987) 345
Hull, G.W., see J.M. Tarascon	22 (1986) 85
Huntz, A.M., see G.B. Abderrazik	22 (1987) 285
Ibers, J.A., see P.J. Squattrito	22 (1986) 53
Itoh, M., T. Yamamoto and Z. Kozuka, Potentiometric study of the solid state ion-exchange	
reaction between $\alpha$ -AgI and $\beta''$ -alumina	22 (1987) 219
Jia Neng-Cheng, see Wang Yong-Neng	22 (1987) 151
Jones, C.A., see L.S. Selwyn	22 (1987) 337
Julien, C., E. Hatzikraniotis and M. Balkanski, Silver intercalated III-VI compounds	22 (1987) 199
Kaneko, H., W.C. Maskell and B.C.H. Steele, Miniature oxygen pump-gauge. I. Leakage	
considerations	22 (1987) 161
Kanno, R., see O. Yamamoto	22 (1987) 241
Kawamoto, Y. and I. Nohara, Ionic conductivities of ZrF <sub>4</sub> -BaF <sub>2</sub> -CsF glasses	22 (1987) 207
Kleitz, M., J.F. Million-Brodaz and P. Fabry, New compounds for ISFETS	22 (1987) 295
Kostapapas, A., see K.A. Carrado	22 (1986) 117
Kozuka, Z., see M. Itoh	22 (1987) 219
Lagaly, G., Interaction of alkylamines with different types of layered compounds	22 (1986) 43
Leta, D.P., see C.B. Roxlo	22 (1986) 97
Liang, K.S., see C.B. Roxlo	22 (1986) 97
Maskell, W.C., see H. Kaneko	22 (1987) 161
McCarroll, W.H., see K.V. Ramanujachary	22 (1986) 105
McKinnon, W.R., see L.S. Selwyn	22 (1987) 337
McNally, P., see K.V. Ramanujachary	22 (1986) 105
Million-Brodaz, J.F., see M. Kleitz	22 (1987) 295
Mills, D.R., see L.B. Ebert	22 (1986) 143
Mitsui, A., M. Miyayama and H. Yanagida, Evaluation of the activation energy for proton	00 (1007) 010
conduction in Perovskite-type oxides	22 (1987) 213
Miyayama, M., see A. Mitsui Mizusaki, J., K. Amano, S. Yamauchi and K. Fueki, Electrode reaction at Pt, O <sub>2</sub> (g)/stabilized	22 (1987) 213
zirconia interfaces. Part I: Theoretical consideration of reaction model	22 (1007) 212
Mizusaki, J., K. Amano, S. Yamauchi and K. Fueki, Electrode reaction at Pt, O <sub>2</sub> (g)/stabilized	22 (1987) 313
zirconia interfaces. Part II: Electrochemical measurements and analysis	22 (1097) 222
Moulin, G., see G.B. Abderrazik	22 (1987) 323 22 (1987) 285
Mrowec, S., see M. Rekas	22 (1987) 185
Müller-Warmuth, W., see E. Wein	22 (1987) 231
,,	22 (1901) 231

Naithani, U.C., see G.N. Baluni	22 (1987) 155
Nicholson, P.S., see T. Tsurumi	22 (1987) 225
Nicholson, P.S., see N.D. Patel	22 (1987) 305
Noda, M., see O. Yamamoto	22 (1987) 241
Nohara, I., see Y. Kawamoto	22 (1987) 207
Norton, M.L. and L.G. Wolfe, Aspects of the crystal growth of the intergrowth	
tungsten bronzes	22 (1986) 75
Ohta, H., see Y. Waseda	22 (1987) 263
Ouwerkerk, F.F. Veldkamp and J. Schoonman, Thermally stimulated depolarization current	
measurements on $Ba_{1-x}La_xF_{2+2x}$ and $Ba_{1-x}U_xF_{2+2x}$ solid solutions	22 (1987) 173
Patel, N.D. and P.S. Nicholson, An acoustic study of the mixed-alkali-mixed phase $\beta$ -aluminas.	
Part 1: $Na\beta''/\beta$ - $Al_2O_3$ , $K\beta''/\beta$ - $Al_2O_3$ and $(Na_{0.6}K_{0.4})\beta''/\beta$ - $Al_2O_3$	22 (1987) 305
Ramanujachary, K.V., B.T. Collins, M. Greenblatt, P. McNally and W.H. McCarroll,	
Substitutional effects on the electrical properties of the purple bronze Li <sub>0.9</sub> Mo <sub>6</sub> O <sub>17</sub>	22 (1986) 105
Reichle, W.T., Synthesis of anionic clay minerals (mixed metal hydroxides, hydrotalcite)	22 (1986) 135
Rekas, M. and S. Mrowec, On defect clustering in the wustite phase	22 (1987) 185
Rice, S., see C.B. Roxlo	22 (1986) 97
Roth, G. and H. Böhm, Ionic conductivity of β-spodumene (LiAlSi <sub>2</sub> O <sub>6</sub> ) single crystals	22 (1987) 253
Roxlo, C.B., M. Daage, D.P. Leta, K.S. Liang, S. Rice, A.F. Ruppert and R.R. Chianelli, Catalytic defects at molybdenum disulfide "edge" planes	22 (1096) 07
Ruppert, A.F., see C.B. Roxlo	22 (1986) 97 22 (1986) 97
Scanlon, J.C., see L.B. Ebert	22 (1986) 143
Schöllhorn, R., see R. Steffen	22 (1986) 31
Schöllhorn, R., see E. Wein	22 (1987) 231
Schoonman, J., see M. Ouwerkerk	22 (1987) 173
Selwyn, L.S., M.R. McKinnon, U. von Sacken and C.A. Jones, Lithium electrochemical cells	22 (1501) 117
at low voltage: Decomposition of Mo and W dichalcogenides	22 (1987) 337
Singh, G., see T. Tsurumi	22 (1987) 225
Soudani, S., see J.P. Battut	22 (1987) 247
Squattrito, P.J., S.A. Sunshine and J.A. Ibers, Reactivity of ternary chalcogenides	22 (1986) 53
Steele, B.C.H., see H. Kaneko	22 (1987) 161
Steffen, R. and R. Schöllhorn, Intercalation reactions of ruthenium-(III)-chloride via	
electron/ion transfer	22 (1986) 31
Suib, S.L., see K.A. Carrado	22 (1986) 117
Sunshine, S.A., see P.J. Squattrito	22 (1986) 53
Takeda, Y., see O. Yamamoto	22 (1987) 241
Tan Fu-Bin, see Wang Yong-Neng	22 (1987) 151
Tarascon, J.M. and G.W. Hull, Sodium intercalation into the layer oxides Na <sub>x</sub> Mo <sub>2</sub> O <sub>4</sub>	22 (1986) 85
Tsurumi, T., G. Singh and P.S. Nicholson, The mixed alkali effect in $(Na^+-K^+)\beta''$ -alumina	22 (1987) 225
Veldkamp, F.F., see M. Ouwerkerk	22 (1987) 173
Verschoor, C.M. and A.B. Ellis, Optical probes of interlamellar redox chemistry: Intercalation	
of the Creutz-Taube complex into hydrogen uranyl phosphate	22 (1986) 65

Vilminot, S., see J.P. Battut	22 (1987) 247
Von Sacken, U., see L.S. Selwyn	22 (1987) 337
Wahbi, H., see J.P. Battut	22 (1987) 247
Wang Yong-Neng, Tan Fu-Bin adn Jia Neng-Cheng, Study of an organic silver ion solid	
electrolyte for use as an oxygen probe	22 (1987) 151
Waseda, Y. and H. Ohta, Current views on thermal conductivity and diffusivity measurements	
of oxide melts at high temperature	22 (1987) 263
Wein, E., W. Müller-Warmuth and R. Schöllhorn, NMR studies of metal-ammonia and ammonia	
chalcogenide intercalation compounds	22 (1987) 231
Wolfe, L.G., see M.L. Norton	22 (1986), 75
Yamamoto. O., Y Takeda, R. Kanno and M. Noda, Perovskite-type oxides as oxygen electrodes	
for high temperature oxide fuel cells	22 (1987) 241
Yamamoto, T., see M. Itoh	22 (1987) 219
Yamauchi, S., see J. Mizusaki	22 (1987) 313
Yamauchi, S., see J. Mizusaki	22 (1987) 323
Yanagida, H., see A. Mitsui	22 (1987) 213
Young, E.W.A., see G.B. Abderrazik	22 (1987) 285

## **SUBJECT INDEX TO VOLUME 22**

Acoustic properties, 155, 305 Alkylamines, 43, 127 Alumina, 285 Ammonia solutions, 231

Calcium hafnate, 213 Calorimetry, 263 Catalysis, 97 Chemical diffusion silver, 199 Clays, 43, 135 Crystal growth, 75

Debye model, 331 Defect clusters, 185 Defect structure, 97

Electrochemical reactions, 31 ESR, 143 Exchange reactions, 31

Fuel cell, 241

Glasses, 207, 257 Graphite potassium, 143

Hydrotalcite, 135

Indium selenide, 199
Intercalation, 3, 31, 43, 53, 65, 69, 85, 127, 143, 199, 231, 337, 345
Ionic conductivity
fluorine, 207, 247
hydrogen, 213
lithium, 253

oxygen, 285 potassium, 225 sodium, 225, 257 proton, 127 Iron oxide, 185 ISFETS, 295

Laser techniques, 263 Lithium cell, 337 Lithium molybdate, 105 Loss tangent, 155

Magnetic properties, 345

Magnetic susceptibility, 3
Melts
oxide, 263
Metal phosphorus trisulfides, 3
Mixed alkali effect, 225
Molybdenum
selenide, 337
sulfide, 97, 231, 337
trioxide, 69
Montmorillonite, 117
Mössbauer spectroscopy, 3

NASICON, 295 Niobium disulfide, 231 NMR, 3, 143, 231, 247

Optical spectrosocpy, 97 Organometallic complex, 65 Oxidation, 285 Oxygen cell, 161 Oxygen electrode, 241, 313, 323 Oxygen probe, 151

Perovskite, 213, 241 Phase diagram, 207 Photoluminescence, 65 Pillared clays, 117

Raman spectra, 3 Reaction with water, 143 Relaxation response, 331 Rubidium tungsten oxide, 75 Ruthenium chloride, 31

Scale growth, 285 Sensor, 161, 295 Silicates, 43, 253 Silver iodide, 151, 219 Sodium molybdate, 85 Sodium silicate, 257 Space charge, 173 Spodumene, 253 Strontium cerate, 213 Superconductivity, 105 Synthesis, 135

Tantalum disulfide, 231
Tantalum nickel selenides, 53
Tantalum palladium selenides, 53
Theoretical model, 213, 331
Thermal analysis, 117, 151
Thermal conductivity, 263
Thermal depolarization, 173
Thermodynamics, 69, 185, 219
Thermogravimetric analysis, 345

Tin fluoride, 247
Titanium disulfide, 231, 345
Tungsten bronze, 75
Tungsten sulfide, selenide, 337
Tungsten trioxide, hexagonal, 69

Uranyl phosphate, 65

Vanadium pentoxide, 69

Wustite, 185

X-ray studies, 53, 85, 117

Zirconium fluoride, 207 oxide, 161, 313, 323 phosphate, 127

